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# SEQUENCE LISTING

<110> The University of Queensland  
<120> EXPRESSION MODULATING SEQUENCES

<130> 2422800/EJH

<140> US

<141> 2001-06-13

<150> US 60/211,159

<151> 2000-06-13

<160> 60

<170> PatentIn version 3.0

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gggacggcca gcuggagguc ugcgugguag agggaaacucc agagacugug gaucaccaag      180
acugaacggc ugcuuucgcc cacucuuugg gauguuucuu cuuaaggaag cugaaaaacg      240
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gagacgcc 188

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<212> DNA

<213> primer

<400> 28

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<210> 29

<211> 27

<212> DNA

<213> primer

<400> 29

gctagcagtt tccagccctg gaccacg 27

<210> 30

<211> 27

<212> DNA

<213> primer

<400> 30

accggtggcg tctcagggaa ggatgag 27

<210> 31

<211> 21

<212> DNA

<213> primer

<400> 31

agactccagc cctggaccgc g 21

<210> 32

<211> 21

<212> DNA



<213> primer

<400> 32

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21

<210> 33

<211> 877

<212> DNA

<213> mouse

<400> 33

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gactcaccct ctcccagaag gagacctggg gctcagaggc aatatggggg tgggagagtt	180
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gggaaacctt gttttgacct tctgacctca agaccaccgg ggcaactgaa gccagggccc	780
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<212> DNA

<213> mouse

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gacttgtgtt ggatcagtta gtccctaaca ttcccttgta catacagaga ctgtggatcc	180
ccaagactga acggctgctt ctgcccactc ttgggatgt ttcttcttaa ggaagctgaa	240

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aaacgttatt gatttccatg accagtttct gagatgaggg ttagaggtac aagggacatg      300
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agacgcc                                           427

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&lt;210&gt; 35

&lt;211&gt; 581

&lt;212&gt; DNA

&lt;213&gt; human

&lt;400&gt; 35

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ttagggactc atcccagacc cgggacatag aggcaaaata ggggtgggag agcctgggggt      180
gagacattag aaactccaga tttttcactt gtgtctttct ctgtatcttc tttttcttcc      240
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gatggctagc tggagggtctg cgttgtagag aggtaacccc aggtgtgtgc ctgcgcgtgg      420
ggtaggaaga tgtcagtgtt tctgaaaggt ggggactgca aaggagggag ctccaagtgg      480
gggtggggacg ggtgtgtggg aggcaacaga gccactaggg gccaccaggc ttgaaccttt      540
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&lt;210&gt; 36

&lt;211&gt; 573

&lt;212&gt; DNA

&lt;213&gt; human

&lt;400&gt; 36

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ggacatcatt tccccttacc cctccccctca ctacgcaggt gatgcttttt ttgttttgag      120
acggagtcta gctctgtcac ccaggctgga gtgcagtggc accatctcgg ctccactgaaa      180
cctccgcctc ccaggttcaa gcgattcttc tgccctcagcc ttcagagtag ctgggattac      240
aggcaccgc catcatgact ggctaatttt tgtttttttg tagagacggg ggtttcacca      300
tgttggccag gctggctctc aactgtctc aggtgatcct cccgcctcag cctctcaaaag      360
cgttggaatt acaggcgtga gccactgtgc ccggctcagt gatgctcttt tcaactcgaa      420
ttccgtggca gatgtcttag aggggtgggg gataccaggg atgttctgcc caggattctg      480
tgccagagac tgctgtctga cagtctctat ttcctccacc tttataccta ccttcccttt      540

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- 11 -

ctgcagtgtc cccacaccct cctctgagac gcc 573

<210> 37

<211> 22

<212> DNA

<213> primer

<400> 37

ttgagctcag ttccagccct gg 22

<210> 38

<211> 20

<212> DNA

<213> primer

<400> 38

aaccatggcg tctcagggaa 20

<210> 39

<211> 18

<212> DNA

<213> primer

<400> 39

ggtttcccag tcaccgac 18

<210> 40

<211> 21

<212> DNA

<213> primer

<400> 40

acacaggaaa cagctatgac c 21

<210> 41

<211> 307

<212> RNA

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<213> mouse

<400> 41

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gggacggcca	gcuggagguc	ugcgugguag	agggaacucc	agagacugug	gaucaccaag	180
acugaacggc	ugcuucugcc	cacucuuugg	gauguuucuu	cuuaaggaag	cugaaaaacg	240
uuauugauuu	ccaugaccag	uuucugagau	gaggguuaga	gguccccuca	uccuucccug	300
agacgcc						307

<210> 42

<211> 307

<212> RNA

<213> mouse

<400> 42

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gcgccucucc	cacauacuag	aaaucucucc	cuuucugag	guugggauga	agaagcagu	120
gggacggcca	gcuggagguc	ugcgugguag	agggaacucc	agagacugug	gaucaccaag	180
acugaacggc	ugcuucugcc	cacucuuugg	gauguuucuu	cuuaaggaag	cugaaaaacg	240
uuauugauuu	ccaugaccag	uuucugagau	gaggguuaga	gguccccuca	uccuucccug	300
agacgcc						307

<210> 43

<211> 307

<212> RNA

<213> mouse

<400> 43

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gcgccucucc	cacauacuag	aaaucucucc	cuuucugag	guugggauga	agaagcagu	120
gggacggcca	gcuggagguc	ugcgugguag	agggaacucc	agagacugug	gaucaccaag	180
acugaacggc	ugcuucugcc	cacucuuugg	gauguuucuu	cuuaaggaag	cugaaaaacg	240
uuauugauuu	ccaugaccag	uuucugagau	gaggguuaga	gguccccuca	uccuucccug	300
agacgcc						307

<210> 44

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&lt;211&gt; 307

&lt;212&gt; RNA

&lt;213&gt; mouse

&lt;400&gt; 44

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aguuucaugc ccaugaccan gcaucccgag caccgcgccc cgacggaggu cucuuugucc      60
gcgccucucc cacauacuag aaucucucc cuuucugag guugggauga agaagcaguu      120
gggacggcca gcuggagguc ugcgugguag agggacucc agagacugug gaucaccaag      180
acugaacggc ugcucugcc cacucuuugg gauguuucuu cuuaaggaag cugaaaaacg      240
uuauugauuu ccaugaccag uuucugagau gaggguuaga ggucuccuca uccuucccug      300
agacgcc                                           307

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&lt;210&gt; 45

&lt;211&gt; 307

&lt;212&gt; RNA

&lt;213&gt; mouse

&lt;400&gt; 45

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gcgccucucc cacauacuag aaucucucc cuuucugag guugggauga agaagcaguu      120
gggacggcca gcuggagguc ugcgugguag agggacucc agagacugug gaucaccaag      180
acugaacggc ugcucugcc cacucuuugg gauguuucuu cuuaaggaag cugaaaaacg      240
uuauugauuu ccaugaccag uuucugagau gaggguuaga ggucuccuca uccuucccug      300
agacgcc                                           307

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&lt;210&gt; 46

&lt;211&gt; 307

&lt;212&gt; RNA

&lt;213&gt; mouse

&lt;400&gt; 46

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aguuucaugc ccaugaccan gcaucccgag caccgcgccc cgacggaggu cucuaugucc      60
gcgccucucc cacauacuag aaucucucc cuuucugag guugggauga agaagcaguu      120
gggacggcca gcuggagguc ugcgugguag agggacucc agagacugug gaucaccaag      180
acugaacggc ugcucugcc cacucuuugg gauguuucuu cuuaaggaag cugaaaaacg      240
uuauugauuu ccaugaccag uuucugagau gaggguuaga ggucuccuca uccuucccug      300
agacgcc                                           307

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gggacggcca gcuggagguc ugcgugguag agggaacucc aggucccuc auccuuccu 180  
gagacgcc 188

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gagacgcc 188

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gagacgcc 188

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<213> mouse

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uucccugaga cgcc 74

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uucaugcggg	uaaguugaag	aggcuggagg	gauggguagc	uggaugucug	cguuguagag	180
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uucaugcggg	uaaguugaag	aggcuggagg	gauggcuagc	uggaugucug	cguuguagag	180
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cuccucugag acgcc 75



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<210> 58

<211> 75

<212> RNA

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cuccucugag augcc 75

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<223> n = any nucleotide

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aggttgggag	ggtgggggtg	cactgaagct	gcgctgcagt	ggccctgtga	ccccctccc	300
cgccacacac	ctcccccccc	ccccagccca	gtttccagcc	ctggaccacg	catcccagagc	360
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ccaccgcaaa	agaaggggag	gctcagtggg	gtgggagtag	cggtgtgcc	ggcaacagaa	840
cccttgaggg	ccgggctggg	attggactcc	tgacctgtgg	ctgtgacaga	tgtgcacatg	900
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gggcagggcc	cccagggaaa	agtaagagct	ggggaaactt	tgttttgacc	ctctgacctc	1080
aagaccaccg	gggcaactga	agccaggcgc	cgggagaccc	ctactggggc	agagcgggac	1140
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atggtatagg	tctttccttc	cagtacgggg	agaaaagatg	ggcagttttc	ttctgggaag	1440
aaagtccgtg	aacgcgggtg	atttacccta	ggggggcggg	gttcagaagg	acccccctcc	1500
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Figure 1. The effect of the concentration of the *Agrobacterium* strain on the transformation efficiency of *Agrobacterium* strain 1024. The *Agrobacterium* strain 1024 was cultured in YEA medium for 24 h at 28 °C. The cell concentration was adjusted to 1.0 × 10<sup>8</sup> cells/ml. The cell suspension was mixed with the cell suspension of the *Agrobacterium* strain 1024 at a ratio of 1:1, 1:2, 1:3, 1:4, 1:5, 1:6, 1:7, 1:8, 1:9, 1:10, 1:11, 1:12, 1:13, 1:14, 1:15, 1:16, 1:17, 1:18, 1:19, 1:20, 1:21, 1:22, 1:23, 1:24, 1:25, 1:26, 1:27, 1:28, 1:29, 1:30, 1:31, 1:32, 1:33, 1:34, 1:35, 1:36, 1:37, 1:38, 1:39, 1:40, 1:41, 1:42, 1:43, 1:44, 1:45, 1:46, 1:47, 1:48, 1:49, 1:50, 1:51, 1:52, 1:53, 1:54, 1:55, 1:56, 1:57, 1:58, 1:59, 1:60, 1:61, 1:62, 1:63, 1:64, 1:65, 1:66, 1:67, 1:68, 1:69, 1:70, 1:71, 1:72, 1:73, 1:74, 1:75, 1:76, 1:77, 1:78, 1:79, 1:80, 1:81, 1:82, 1:83, 1:84, 1:85, 1:86, 1:87, 1:88, 1:89, 1:90, 1:91, 1:92, 1:93, 1:94, 1:95, 1:96, 1:97, 1:98, 1:99, 1:100, 1:101, 1:102, 1:103, 1:104, 1:105, 1:106, 1:107, 1:108, 1:109, 1:110, 1:111, 1:112, 1:113, 1:114, 1:115, 1:116, 1:117, 1:118, 1:119, 1:120, 1:121, 1:122, 1:123, 1:124, 1:125, 1:126, 1:127, 1:128, 1:129, 1:130, 1:131, 1:132, 1:133, 1:134, 1:135, 1:136, 1:137, 1:138, 1:139, 1:140, 1:141, 1:142, 1:143, 1:144, 1:145, 1:146, 1:147, 1:148, 1:149, 1:150, 1:151, 1:152, 1:153, 1:154, 1:155, 1:156, 1:157, 1:158, 1:159, 1:160, 1:161, 1:162, 1:163, 1:164, 1:165, 1:166, 1:167, 1:168, 1:169, 1:170, 1:171, 1:172, 1:173, 1:174, 1:175, 1:176, 1:177, 1:178, 1:179, 1:180, 1:181, 1:182, 1:183, 1:184, 1:185, 1:186, 1:187, 1:188, 1:189, 1:190, 1:191, 1:192, 1:193, 1:194, 1:195, 1:196, 1:197, 1:198, 1:199, 1:200, 1:201, 1:202, 1:203, 1:204, 1:205, 1:206, 1:207, 1:208, 1:209, 1:210, 1:211, 1:212, 1:213, 1:214, 1:215, 1:216, 1:217, 1:218, 1:219, 1:220, 1:221, 1:222, 1:223, 1:224, 1:225, 1:226, 1:227, 1:228, 1:229, 1:230, 1:231, 1:232, 1:233, 1:234, 1:235, 1:236, 1:237, 1:238, 1:239, 1:240, 1:241, 1:242, 1:243, 1:244, 1:245, 1:246, 1:247, 1:248, 1:249, 1:250, 1:251, 1:252, 1:253, 1:254, 1:255, 1:256, 1:257, 1:258, 1:259, 1:260, 1:261, 1:262, 1:263, 1:264, 1:265, 1:266, 1:267, 1:268, 1:269, 1:270, 1:271, 1:272, 1:273, 1:274, 1:275, 1:276, 1:277, 1:278, 1:279, 1:280, 1:281, 1:282, 1:283, 1:284, 1:285, 1:286, 1:287, 1:288, 1:289, 1:290, 1:291, 1:292, 1:293, 1:294, 1:295, 1:296, 1:297, 1:298, 1:299, 1:300, 1:301, 1:302, 1:303, 1:304, 1:305, 1:306, 1:307, 1:308, 1:309, 1:310, 1:311, 1:312, 1:313, 1:314, 1:315, 1:316, 1:317, 1:318, 1:319, 1:320, 1:321, 1:322, 1:323, 1:324, 1:325, 1:326, 1:327, 1:328, 1:329, 1:330, 1:331, 1:332, 1:333, 1:334, 1:335, 1:336, 1:337, 1:338, 1:339, 1:340, 1:341, 1:342, 1:343, 1:344, 1:345, 1:346, 1:347, 1:348, 1:349, 1:350, 1:351, 1:352, 1:353, 1:354, 1:355, 1:356, 1:357, 1:358, 1:359, 1:360, 1:361, 1:362, 1:363, 1:364, 1:365, 1:366, 1:367, 1:368, 1:369, 1:370, 1:371, 1:372, 1:373, 1:374, 1:375, 1:376, 1:377, 1:378, 1:379, 1:380, 1:381, 1:382, 1:383, 1:384, 1:385, 1:386, 1:387, 1:388, 1:389, 1:390, 1:391, 1:392, 1:393, 1:394, 1:395, 1:396, 1:397, 1:398, 1:399, 1:400, 1:401, 1:402, 1:403, 1:404, 1:405, 1:406, 1:407, 1:408, 1:409, 1:410, 1:411, 1:412, 1:413, 1:414, 1:415, 1:416, 1:417, 1:418, 1:419, 1:420, 1:421, 1:422, 1:423, 1:424, 1:425, 1:426, 1:427, 1:428, 1:429, 1:430, 1:431, 1:432, 1:433, 1:434, 1:435, 1:436, 1:437, 1:438, 1:439, 1:440, 1:441, 1:442, 1:443, 1:444, 1:445, 1:446, 1:447, 1:448, 1:449, 1:450, 1:451, 1:452, 1:453, 1:454, 1:455, 1:456, 1:457, 1:458, 1:459, 1:460, 1:461, 1:462, 1:463, 1:464, 1:465, 1:466, 1:467, 1:468, 1:469, 1:470, 1:471, 1:472, 1:473, 1:474, 1:475, 1:476, 1:477, 1:478, 1:479, 1:480, 1:481, 1:482, 1:483, 1:484, 1:485, 1:486, 1:487, 1:488, 1:489, 1:490, 1:491, 1:492, 1:493, 1:494, 1:495, 1:496, 1:497, 1:498, 1:499, 1:500, 1:501, 1:502, 1:503, 1:504, 1:505, 1:506, 1:507, 1:508, 1:509, 1:510, 1:511, 1:512, 1:513, 1:514, 1:515, 1:516, 1:517, 1:518, 1:519, 1:520, 1:521, 1:522, 1:523, 1:524, 1:525, 1:526, 1:527, 1:528, 1:529, 1:530, 1:531, 1:532, 1:533, 1:534, 1:535, 1:536, 1:537, 1:538, 1:539, 1:540, 1:541, 1:542, 1:543, 1:544, 1:545, 1:546, 1:547, 1:548, 1:549, 1:550, 1:551, 1:552, 1:553, 1:554, 1:555, 1:556, 1:557, 1:558, 1:559, 1:560, 1:561, 1:562, 1:563, 1:564, 1:565, 1:566, 1:567, 1:568, 1:569, 1:570, 1:571, 1:572, 1:573, 1:574, 1:575, 1:576, 1:577, 1:578, 1:579, 1:580, 1:581,